

ABSTRACT

A blade pitch control system for a cycloidal marine propulsion system is provided. The cycloidal marine propulsion system comprises a rotating wheel, and a plurality of rotating blades attached to the rotating wheel and individually rotatable with respect to the rotating wheel. The blade pitch control system comprises at least one rotating wheel position sensor, configured to provide a sensor signal indicative of a measured position of the rotating wheel, a wheel position estimation unit, configured to determine an estimated position of the rotating wheel based upon the sensor signal of the at least one rotating wheel position sensor; and a blade pitch determining unit, configured to determine a blade pitch set point for at least one of the plurality of rotating blades based upon the estimated position of the rotating wheel. Determining the estimated position of the rotating wheel comprises a data processing of the sensor signal.

Fig. 1